Location Date/Time Deaths & Property & Event Type and Details
Injuries Crop Dmg

IOWA, Southwest

MONONA COUNTY --- TURIN [42.02, -95.97], 0.4 E TICONIC [42.17, -95.94], 1.9 NW GRANT CENTER [42.19, -96.03], 3.0 E ONAWA MUNI ARPT [42.02, -96.04], 2.8 SE BLENCOE [41.90, -96.05], 5.4 SW MOORHEAD [41.87, -95.94]

07/01/10 00:00 CST 2K Flood (due to Heavy Rain)

07/02/10 15:45 CST 0 Source: Official NWS Observations

This flooding carried over from June when heavy rain during the morning of June 27th caused flooding of the Little Sioux River. The river near Turin crested at around 24.5 feet during the early morning hours of June 30. Flood stage is 20 feet. The river was above flood stage near Turin from the early evening of June 27th through July 2nd. A levee along the river protected significant flooding although some agricultural lowlands were flooded.

Heavy and persistent rain in June caused flooding of some rivers in western lowa which carried over into July.

FREMONT COUNTY --- 2.0 WNW BARTLETT [40.89, -95.82], 3.4 NW PERCIVAL [40.78, -95.85], 5.5 WSW PERCIVAL [40.72, -95.90], 2.6 SW PAYNE [40.65, -95.79], 5.4 SSW PAYNE [40.60, -95.78], 3.1 WNW HAMBURG [40.61, -95.71]

07/01/10 00:00 CST 5K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

This flooding carried over from June when heavy rain over much of eastern Nebraska and western lowa during most of that month caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. The river near Nebraska City climbed above flood stage early in the afternoon on June 11th and remained above flood stage for most of July and into August. River levels were held up by additional rains and increased releases from upstream reservoirs. The river at Nebraska City crested around or a little over 25 feet during the afternoon of June 16th and June 21st. During July the river at Nebraska City peaked around 22 feet during the evening of July 1. Flood stage is 18 feet. In western lowa most of the flooding was confined to farmland along the river.

MILLS COUNTY --- 4.5 WNW FOLSOM [41.13, -95.89], 3.3 WSW PACIFIC CITY [41.03, -95.88], 4.5 SSW PACIFIC JCT [40.96, -95.84], 8.3 W TABOR [40.90, -95.83], 6.5 W TABOR [40.89, -95.79], 3.3 NNW FOLSOM [41.14, -95.85]

07/01/10 00:00 CST 10K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

This flooding carried over from June when heavy rain over much of eastern Nebraska and western lowa during most of the month caused a prolonged period of flooding along the Missouri River downstream of Omaha through Rulo. The flood damage was increased near the confluence of the Platte River where flood waters from the Platte added to the flow. In Plattsmouth the Missouri River crested a little over 33 feet in the late afternoon of June 22nd, flood stage is 26 feet. During July the river crested close to 29.5 feet in the afternoon of July 1. The river climbed above flood stage in the afternoon of June 11 and remained close to or above flood stage most of July into August. Several mobile home and camping communities along the river were flooded, including some trailers and mobile homes. Roads near the river were also flooded.

POTTAWATTAMIE COUNTY --- 1.3 SSW GRABLE [41.45, -95.93], 5.2 WNW GRABLE [41.49, -96.02], 2.5 SW ASCOT [41.33, -95.94], 1.8 SW COUNCIL BLUFFS [41.26, -95.90], 0.9 SSE CARTER LAKE [41.29, -95.86]

 07/01/10 01:00 CST
 10K
 Flood (due to Heavy Rain)

 07/31/10 23:59 CST
 0
 Source: Newspaper

Lowland flooding from heavy rain over much of eastern Nebraska and western lowa during most of June carried over through much of July into August along the Missouri River in the Omaha area. The high waters frequently flooded Wilson Island Park which remained closed from when it first flooded on June 18th through July and August. A few roads by the river also flooded. Rising water also periodically flooded a riverboat casino's parking lot and lower level of a parking garage.

Heavy and persistent rain in June caused prolonged flooding along the Missouri River which continued through July and into August downstream of Omaha. The flooding was prolonged by additional periods of heavy rain in July combined with increased releases from upstream reservoirs.

FREMONT COUNTY --- HAMBURG [40.60, -95.65], 0.7 N HAMBURG REIDS ARPT [40.59, -95.65], 1.6 ENE HAMBURG REIDS ARPT [40.59, -95.62], 2.1 SW RIVERTON [40.66, -95.60], 3.7 WSW RIVERTON [40.66, -95.63]

07/05/10 12:45 CST 0 Flood (due to Heavy Rain)

07/06/10 07:00 CST 0 Source: Official NWS Observations

Rainfall of 2 to 3 inches fell across much of the Nishnabotna River basin for the 48 hour period ending at 7am on July 5. The heavy rain caused another round of flooding along the Nishnabotna River, especially near Hamburg. The river near Hamburg crested a little over 24 feet in the evening of July 5th. Flood stage is 23 feet. The river near town was above flood stage from the afternoon evening of the 5th until the morning of the 6th. A federal levee near town protected the area from significant damage, but minor flooding of agricultural lowlands near the river was noted.

A slow moving cold front brought a round of heavy-rain producing thunderstorms that tracked from eastern Nebraska into southwest lowa. Rainfall of 2 to 3 inches was common from southeast Nebraska into southwest lowa. The heavy rain caused new flooding and

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
rolonged ongoing flooding along the Misso	uri River.			
POTTAWATTAMIE COUNTY 3.0 NW OAKLA	• ' •		0	Funnel Claud
	07/07/10 13:15 CST		0	Funnel Cloud
	07/07/10 13:15 CST		0	Source: Trained Spotter
Numerous spotters reported seeing funnel cloudamage was observed or reported and the sho		-	e was some report	ts of one of them touching down, no
Showers that developed on a weak boundary	in east central Nebraska and we	stern lowa prod	luced a few funnel	l reports.
(IA-Z043) MONONA, (IA-Z055) HARRISON, (IA	a-Z056) SHELBY, (IA-Z069) POTTA	WATTAMIE, (IA	-Z079) MILLS, (IA-	Z080) MONTGOMERY, (IA-Z090)
FREMONT, (IA-Z091) PAGE	07/14/10 11:00 CST		0	Heat
	07/14/10 11:00 CST		0	Tieat
0s to lower 80s. This created heat index value of strong to severe thunderstorms developion.	oped on a cold front bringing reli			•
MONONA COUNTY ONAWA [42.03, -96.10]	07/14/10 17:25 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 17:25 CST		0	Source: Newspaper
	3		·	
Thunderstorm wind gusts around 60 mph knoc on a highway near town for a while until electric	cal crews could move the lines.	Jau III Ollawa.	THE WINGS AISO DIE	w down power lines trapping a traveler
HARRISON COUNTY DUNLAP [41.85, -95.6	07/14/10 17:52 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 17:52 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm wind gusts a	round 60 mph.			
POTTAWATTAMIE COUNTY 0.7 WSW COU	NCIL BLUFFS [41.27, -95.88], 2.1	NW DUMFRIES	[41.20, -95.81]	
	07/14/10 18:50 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 18:50 CST		0	Source: Trained Spotter
Thunderstorm wind gusts of around 60 mph do nouse pulling the mast off exposing live wires v	•	il Bluffs to south	east of town . One	limb caught a power line going into a
MILLS COUNTY PACIFIC JCT [41.02, -95.80	=			
	07/14/10 19:40 CST		0	Thunderstorm Wind (EG 50 kt)
Thunderstorm winds estimated at aleas to 00 m	07/14/10 19:40 CST	21/	0	Source: Trained Spotter
Thunderstorm winds estimated at close to 60 n	iph downed trees across a drivewa	ay. 		
			0	Thundareterm Wind (EC 50 kt)
PAGE COUNTY 0.7 S SHENANDOAH [40.70			0	Thunderstorm Wind (EG 50 kt)
PAGE COUNTY 0.7 S SHENANDOAH [40.70	07/14/10 19:48 CST			0 10 "
PAGE COUNTY 0.7 S SHENANDOAH [40.70	07/14/10 19:48 CST 07/14/10 19:48 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at close to	07/14/10 19:48 CST	ee in Shenandoa		Source: Trained Spotter

07/17/10 12:00 CST

07/17/10 18:00 CST

FREMONT, (IA-Z091) PAGE

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Heat

0

0

Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

Sunshine and warm temperatures aloft helped temperatures climb into the lower to mid 90s and south winds helped dew point temperatures reach 75 to 80 degrees over most of the region. This allowed heat index values to climb into the 105 to 110 degree range over much of the area from around 1pm to 7pm CDT on July 17th.

HARRISON COUNTY --- 1.2 NW CALIFORNIA JCT [41.83, -96.00]

The cooperative observer near Little Sioux said thunderstorm wind gusts knocked down several tree limbs in the vicinity. The winds were estimated at 55 to 60 mph.

SHELBY COUNTY --- HARLAN [41.65, -95.33]

07/18/10 02:50 CST 20K Thunderstorm Wind (EG 50 kt) 07/18/10 02:50 CST 0 Source: Newspaper

Thunderstorm winds estimated at 55 to 60 mph downed a large tree which crushed the roof of a house in the Harlan area. Time was estimated by radar.

Isolated thunderstorms developed along a slow moving weak cold front that pushed into eastern Nebraska during the overnight hours of July 17th/18th. Ahead of the front conditions were moderately unstable with temperatures in the 80s and dew point temperatures in the mid to upper 70s. Two small clusters of thunderstorms crossed the area, one tracked from the Albion and Norfolk area into western lowa north of Omaha. The other from Seward and Lincoln toward Nebraska City. The storms mainly produced gusty winds, but a few reports of large hail were also received.

(IA-Z079) MILLS, (IA-Z080) MONTGOMERY, (IA-Z090) FREMONT, (IA-Z091) PAGE

07/22/10 13:00 CST 0 Heat

07/22/10 18:00 CST 0

Temperatures climbed into the mid and upper 90s during the afternoon and early evening in far southwest lowa on July 22nd. When combined with dew point temperatures that were close to 80 degrees, heat index values reached around 105 to 110 degrees from around 2pm until 7pm CDT.

NEBRASKA, East

CASS COUNTY --- 2.3 N PLATTSMOUTH [41.05, -95.90], 2.5 SE PLATTSMOUTH [40.99, -95.87], 3.9 E MURRAY [40.93, -95.85], 2.5 ESE UNION [40.81, -95.85], 4.6 E UNION [40.82, -95.81], 5.7 E MURRAY [40.93, -95.81], 3.5 ESE PLATTSMOUTH [41.00, -95.84], 3.0 NE PLATTSMOUTH [41.05, -95.86]

07/01/10 00:00 CST 5K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

This flooding carried over from June when heavy rain over much of eastern Nebraska and western lowa during that month and also in July caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. Although the river at Plattsmouth dropped below flood stage on July 8th, it remained high all of July climbing back above flood stage in the middle of the month and again several times late in the month into August. The flood damage was increased near the confluence of the Platte River early in the month where flood waters from the Platte added to the flow. In Plattsmouth the Missouri River crested a little over 33 feet in the late afternoon of June 22nd, flood stage is 26 feet. The July crest was about 29.5 feet on the first. Some roads on the east end of Plattsmouth were closed due to flood waters which also submerged the land around a waste-water treatment plant which prompted sandbagging. A recreation area in the region was also partially submerged in flood waters.

DOUGLAS COUNTY --- 1.1 SW EAST OMAHA [41.36, -95.97], 0.9 NE EAST OMAHA [41.38, -95.94], 1.2 ESE EAST OMAHA [41.36, -95.93], 1.4 NE NORTH OMAHA [41.34, -95.95], 1.2 NNE NORTH OMAHA [41.35, -95.96]

07/01/10 00:00 CST 25K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

Persistent and heavy rains during June and July combined with increased releases from Gavin's Point Dam and caused the Missouri River to approach its 29 foot flood stage several times in July (although there was a period from the 7th through the 24th when the river dropped below 25 feet or so). The high water flooded some parks in the flood plain including N.P. Dodge park causing its closure. The high water continued into August and eventually prompted the closure of N.P. Dodge Park for the season and causing 20,000 dollars in lost revenue for the city of Omaha.

NEMAHA COUNTY --- 3.5 NNW PERU [40.52, -95.77], 2.6 SE PERU [40.46, -95.69], 0.8 W BROWNVILLE [40.40, -95.66], 0.5 S NEMAHA [40.32, -95.67], 9.4 SE NEMAHA [40.23, -95.55], 9.8 ESE NEMAHA [40.26, -95.51], 4.7 ENE PERU [40.50, -95.65]

07/01/10 00:00 CST 20K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

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Location Date/Time Deaths & Property & Event Type and Details

Injuries Crop Dmg

Heavy rain over much of eastern Nebraska and western lowa during most of June caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. The river near Brownville climbed above flood stage during the afternoon on June 11th and remained above flood stage through July and into August aided by additional rain and increased releases from upstream reservoirs. The river at Brownville crested close to 43 feet during the evening of June 23rd, flood stage is 32 feet. During July the river crested a little under 39 feet for the first several days of the month. Besides considerable flooding of lowlands along the river, several roads were flooded including one that lead to the Cooper Nuclear power plant.

OTOE COUNTY --- 9.4 N NEBRASKA CITY ARPT [40.81, -95.87], 4.8 NNW NEBRASKA CITY ARPT [40.73, -95.91], 1.1 NE NEBRASKA CITY ARPT [40.68, -95.85], 3.9 ESE NEBRASKA CITY [40.63, -95.78], 5.4 ESE PAUL [40.55, -95.78], 5.9 ESE NEBRASKA CITY [40.61, -95.75]

, 5.4 ESE PAUL [40.55, -95.78], 5.9 ESE NEBRASKA CITY [40.61, -95.75] 07/01/10 00:00 CST 20K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

Heavy rain over much of eastern Nebraska and western lowa during most of June caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. The river near Nebraska City climbed above flood stage early in the afternoon on June 11th and remained above flood stage for most of July and into August. The flooding was aided by additional rains in July and increased releases from upstream reservoirs. The river at Nebraska City crested around or a little over 25 feet during the afternoon of June 16th and June 21st and started July out a little under 22 feet. Flood stage is 18 feet. Industrial roads near the river were flooded along with some cabins, boat ramps and recreation areas.

RICHARDSON COUNTY --- 3.4 N BARADA [40.27, -95.59], 5.4 SE BARADA [40.17, -95.50], 0.2 NW RULO [40.05, -95.43], 6.1 ESE RULO [40.00, -95.33],

7.8 ESE RULO [40.01, -95.29], 7.1 N RULO [40.15, -95.41], 5.1 NE BARADA [40.27, -95.51]

07/01/10 00:00 CST 20K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

Heavy rain over much of eastern Nebraska and western lowa during most of June caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. The river remained above flood stage through July and into August, with the high water aided by additional rains and increased releases from upstream reservoirs. The river at Rulo reached a record around 26.6 feet during the evening of 6/24, flood stage is 17 feet. A July crest of just under 23 feet late on the 5th was observed. Highway 159 near Rulo was closed for a time and substantial flooding of lowlands along the river occurred including cabins and recreation areas. At least 20 homes along the river were evacuated in June when flooding forced 30 to 40 people to find other shelter.

SARPY COUNTY --- 1.9 N AVERY [41.20, -95.93], 1.2 ENE AVERY [41.18, -95.91], 2.2 E GILMORE JCT [41.15, -95.89], 0.3 ESE LA PLATTE [41.07, -95.92], 1.4 ESE ST COLUMBANS [41.08, -95.85], 2.3 ENE BELLEVUE [41.14, -95.86], 4.6 ENE AVERY [41.18, -95.84]

07/01/10 00:00 CST 15K Flood (due to Heavy Rain)

07/31/10 23:59 CST 0 Source: Official NWS Observations

This flooding carried over from June when heavy rain over much of eastern Nebraska and western lowa during that month caused a prolonged period of flooding along the Missouri River, especially downstream of Omaha through Rulo. Although the river at Plattsmouth dropped below flood stage on July 8th, it remained high all of July climbing back above flood stage in the middle of the month and again several times late in the month into August. The flood damage was increased near the confluence of the Platte River early in July where high water from the Missouri caused the Platte River to back up even though the Platte had fallen below flood stage. High waters along the Platte flooded a park south of Bellevue forcing its closure. Other parks and a few roads were closed in Sarpy county along the Missouri River and houses that were between a levee and the river were also flooded or had access to them flooded. In Plattsmouth, just south of Sarpy county, the Missouri River crested a little over 33 feet in the late afternoon of June 22nd, flood stage is 26 feet. A July crest of around 29.5 feet was observed on the first

Heavy rain during the Month of June combined with continued high releases from upstream reservoirs caused prolonged flooding along the Missouri River that began in June and continued through July.

DOUGLAS COUNTY --- 1.1 NNW ELKHORN [41.30, -96.24]

07/07/10 14:00 CST 0 Funnel Cloud

07/07/10 14:00 CST 0 Source: Broadcast Media

A developing thunderstorm produced a brief funnel cloud in west Omaha. The funnel was captured on film and shown by local media during the evening broadcast. No damage was observed or reported.

Showers and thunderstorms that developed near a weak boundary produced several funnel cloud reports from east central Nebraska into western lowa.

(NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON

07/14/10 11:00 CST 0 Heat

07/14/10 17:00 CST 0

Temperatures climbed quickly into the lower to mid 90s early in the afternoon on July 14th as dew point temperatures rose to the upper 70s to lower 80s. This created heat index values of 105 to 115 degrees over most of the area from around noon CDT until 6pm CDT. A

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
line of strong to severe thunderstorn region.	ns developed on a cold front bringing	relief to the heat b	y evening as they	pushed through the
STANTON COUNTY 0.5 E STANTO	N [41.95, -97.22]			
	07/14/10 15:56 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 15:56 CST		0	Source: Emergency Manager
Thunderstorm winds estimated at clos	e to 60 mph downed large tree branches	s in Stanton.		
CUMING COUNTY 4.0 NW WISNEF	R [42.02, -96.99], WISNER [41.98, -96.93	······································		
	07/14/10 16:15 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 16:18 CST		0	Source: Newspaper
Thunderstorm wind gusts estimated at nouse damage in the area.	t close to 60 mph downed a few trees an	id large branches i	n and around Wisn	er which caused scattered vehicle and
BURT COUNTY 0.9 NE LYONS [41	- · · · - · · - · · · · · · · · · · · ·			
	07/14/10 16:58 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 16:58 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm wind	d gusts of around 60 mph.			
COLFAX COUNTY 3.6 NNW SCHU	YLER [41.50, -97.09]			
	07/14/10 16:58 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 16:58 CST		0	Source: Trained Spotter
Thunderstorm winds estimated at arou	und 60 mph downed large branches nort	hwest of Schuyler.		
BURT COUNTY 0.7 N DECATUR [4	12.01, -96.25]			
-	07/14/10 17:02 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 17:02 CST		0	Source: Fire Department/Rescue
Thunderstorm winds of around 60 mpl	h downed a few large branches in town.			
BUTLER COUNTY 1.3 ESE LINWO	OD [41.41, -96.93]			
	07/14/10 17:15 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 17:19 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm wind	d gusts around 60 mph which knocked d	own large branche	s and at least one I	nealthy tree near Linwood.
SAUNDERS COUNTY 6.1 NW RES	CUE [41.42, -96.95], 6.0 S MORSE BLU	FF [41.34, -96.78]		
	07/14/10 17:31 CST		0	Thunderstorm Wind (EG 60 kt)
	07/14/10 17:36 CST		0	Source: Trained Spotter
Thunderstorm winds estimated at over	r 65 mph knocked down some large tree	s from near Linwoo	od to south of Mors	e Bluff.
SAUNDERS COUNTY 0.5 E MALM	O [41.27, -96.72]			
	07/14/10 17:44 CST		0	Thunderstorm Wind (EG 55 kt)
	07/14/10 17:44 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at	t over 60 mph uprooted trees in the Malr	no area.		
SAUNDERS COUNTY 3.3 SE CEDA	AR BLUFFS [41.37, -96.57]			
	07/14/10 17:45 CST		0	Thunderstorm Wind (MG 53 kt)
	07/14/10 17:45 CST		0	Source: Mesonet
Local weather equipment measured a	thunderstorm wind gust of 61 mph.			
SAUNDERS COUNTY 4.8 NW LES	HARA [41.3796.51]			
5. (5.15E10 555111 4.0 HIV ELO	07/14/10 17:50 CST		0	Thunderstorm Wind (EG 53 kt)
	07/14/10 17:50 CST	1	0	Source: Newspaper
				• •

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A thunderstorm wind gust estimated at arour	nd 60 mph caused a semi to hit a g	uardrail and tip int	to the ditch slightly	injuring the driver.
SAUNDERS COUNTY WAHOO [41.22, -9	6.62]			
	07/14/10 17:54 CST		0	Thunderstorm Wind (EG 58 kt)
	07/14/10 17:54 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at aroun	nd 65 mph downed trees and a few	power lines in the	e Wahoo area.	
DOUGLAS COUNTY 0.5 W VALLEY [41.3	32, -96.36], 0.8 SSE VALLEY [41.31	1, -96.34]		
	07/14/10 18:00 CST		0	Thunderstorm Wind (MG 58 kt)
	07/14/10 18:05 CST		0	Source: Official NWS Observations
Thunderstorm wind gusts of up to 67 mph wooffice. The winds also uprooted and split tree				
DODGE COUNTY 2.9 SE FREMONT [41.4	42, -96.46]			
	07/14/10 18:09 CST		0	Thunderstorm Wind (EG 61 kt)
	07/14/10 18:09 CST		0	Source: Law Enforcement
Law enforcement estimated thunderstorm wi	ind gusts of around 70 mph along I	Highway 275 south	neast of Fremont.	
DOUGLAS COUNTY 1.8 NNW LANE [41.	•	26, -95.94]	0	There developes May 1 (240, 50 tm)
	07/14/10 18:17 CST		0	Thunderstorm Wind (MG 52 kt)
	07/14/10 18:28 CST		0	Source: ASOS
DOUGLAS COUNTY 1.1 NW ELKHORN [41.29, -96.24], 0.5 W ELKHORN [4 07/14/10 18:18 CST	11.28, -96.24]	0	Thunderstorm Wind (EG 55 kt)
	07/14/10 18:23 CST		0	Source: Trained Spotter
Thunderstorm wind gusts estimated at 60 to areas. Some of the fallen trees caused hous least 6 uprooted trees damaging at least 10	se and other damage. Fallen trees markers.		-	-
SARPY COUNTY GRETNA [41.15, -96.25]	-		0	Thursdown Mind (FO FO IA)
	07/14/10 18:20 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 18:20 CST		U	Source: Newspaper
Thunderstorm wind gusts estimated at close blocked traffic.	to 60 mph caused scattered tree of	damage in the Gre	tna area including s	several large limbs that temporarily
CASS COUNTY 0.9 SW GREENWOOD [4				
	07/14/10 18:27 CST		0	Thunderstorm Wind (EG 55 kt)
	07/14/10 18:27 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm wind gusts	s of 60 to 70 mph.			
LANCASTER COUNTY 1.7 ESE WEST LI	NCOLN [40.82, -96.69], 1.4 SSW A	ARBOR [40.88, -96	5.68]	
	07/14/10 18:40 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 18:40 CST		0	Source: Emergency Manager
Thunderstorm wind gusts estimated at aroun The winds also knocked down several trees,	-	•		
LANCASTER COUNTY 0.9 SW WAVERLY	Y [40.91, -96.53]			
	07/14/10 18:46 CST		0	Thunderstorm Wind (EG 50 kt)
	07/14/10 18:46 CST		0	Source: Emergency Manager

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Thunderstorm winds estimated at around 60 mph downed large tree branches in Waverly.

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
CASS COUNTY 0.9 SE PLATTSM	OUTH [41.01, -95.89]			
	07/14/10 19:20 CST		0	Thunderstorm Wind (MG 54 kt)
	07/14/10 19:20 CST		0	Source: AWOS
A thunderstorm wind gust of 62 mph	was measured by Awos at the Plattsmout	h airport.		
TOE COUNTY 1.7 NW LORTON	[40.59, -96.04]			
	07/14/10 20:35 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 20:35 CST		0	Source: Trained Spotter
spotter estimated thunderstorm win	d gusts around 60 mph.			
OHNSON COUNTY 0.9 SE COOP	C [40.51, -96.16]			
	07/14/10 20:45 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 20:45 CST		0	Source: Trained Spotter
hunderstorm wind gusts estimated a	at around 60 mph downed a few large tree	es of 1 foot to 4 fee	t in diameter in the	e Cook area.
TOE COUNTY 0.9 NE NEBRASK			•	7
	07/14/10 20:45 CST		0	Thunderstorm Wind (MG 55 kt)
	07/14/10 20:45 CST		0	Source: AWOS
The Awos at the Nebraska City airporover onto a vehicle.	rt measured a thunderstorm wind gust of	63 mph. The wind	s knocked down se	ome branches and flipped a trampoline
RICHARDSON COUNTY 0.7 N SH	UBERT [40.24, -95.68]			
	07/14/10 21:10 CST		0	Thunderstorm Wind (EG 52 kt)
	07/14/10 21:10 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm win	d gusts of around 60 mph.			
	JSE [40.67, -96.17], 1.9 NNW SYRACUSE	E [40.67, -96.20], 1.	3 SSW SYRACUS	E [40.63, -96.19], 1.3 SSE SYRACUSE
40.63, -96.17]	07/14/10 21:11 CST		5K	Flash Flood (due to Heavy Rain)
	07/14/10 23:11 CST		0	Source: Public
	an an hour caused flash flooding of a few near the highway and railroad tracks.	streets and the cit	y park in Syracuse	e. Water also crossed Highway 50
	near the highway and railroad tracks.	streets and the cit	y park in Syracuse	e. Water also crossed Highway 50
outh of town and created a washout	near the highway and railroad tracks.	streets and the cit	y park in Syracuse	e. Water also crossed Highway 50 Thunderstorm Wind (MG 51 kt)

The Asos at the Falls City airport measured a thunderstorm wind gust of 59 mph.

Thunderstorms developed in a southwest to northeast line along a cold front that pushed across eastern Nebraska and western lowa during the late afternoon and evening of July 14th. Ahead of the front temperatures climbed into the mid 90s with dew point temperatures in the mid 70s to around 80. This created a very unstable environment for the storms. As the storms encountered the extremely unstable conditions they increased in strength, and besides producing very heavy rain, wet micro-bursts developed with some of the storms.

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Location Date/Time Deaths & Property & Event Type and Details



Photo oa large tree that fell in Elkhorn, NE. Photo by Dan Nietfeld.

PLATTE COUNTY --- 2.0 N HUMPHREY [41.71, -97.50]

07/16/10 17:20 CST 0 Funnel Cloud

07/16/10 17:20 CST 0 Source: Law Enforcement

A funnel cloud was seen by many people from the Norfolk area to the north to Humphrey near it and Clarkson to the east . Several photographs from different angles were taken and sent to the NWS office . No damage was observed.

At least one funnel cloud developed along a very weak front north of Columbus. The funnel apparently did not touch down but was seen by many people as far away as the Norfolk area.

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Location Date/Time Deaths & Property & Event Type and Details



Funnel cloud photo taken from near Humphrey, NE in Platte County. Photo by Don Zavadil.

(NE-Z015) THURSTON, (NE-Z018) WAYNE, (NE-Z033) CUMING, (NE-Z034) BURT, (NE-Z042) PLATTE, (NE-Z043) COLFAX, (NE-Z044) DODGE, (NE-Z045) WASHINGTON, (NE-Z050) BUTLER, (NE-Z051) SAUNDERS, (NE-Z052) DOUGLAS, (NE-Z053) SARPY, (NE-Z065) SEWARD, (NE-Z066) LANCASTER, (NE-Z067) CASS, (NE-Z068) OTOE, (NE-Z078) SALINE, (NE-Z088) JEFFERSON, (NE-Z089) GAGE, (NE-Z090) JOHNSON, (NE-Z091) NEMAHA, (NE-Z092) PAWNEE, (NE-Z093) RICHARDSON

Sunshine and warm temperatures aloft helped temperatures climb into the lower to mid 90s and south winds helped dew point temperatures reach 75 to 80 degrees over most of the region. This allowed heat index values to climb into the 105 to 110 degree range over much of the area from around 1pm to 7pm CDT on July 17th.

SEWARD COUNTY 2.1 N GROVER [40.81, -97.03]						
07/17/10 23:31 CS	ST 0	Hail (1.00 in)				
07/17/10 23:31 CS	ST 0	Source: Storm Chaser				
LANCASTER COUNTY 1.7 ESE WEST LINCOLN [40.82, -96.69], 2.4	WNW CHENEYS [40.74, -96.64]					

ANCASTER COUNTY --- 1.7 ESE WEST LINCOLN [40.82, -96.69], 2.4 WNW CHENEYS [40.74, -96.64]

07/17/10 23:42 CST

0 Thunderstorm Wind (EG 56 kt)

07/17/10 23:45 CST

0 Source: Storm Chaser

Thunderstorm wind gusts estimated as high as 60 to 65 mph pushed through the Lincoln area causing scattered tree damage and power outages. At least 35 calls were made to remove trees or large limbs from streets or vehicles. The winds at the Lincoln airport were measured at 57 mph by Asos, but according to the Lincoln Journal, the south part of Lincoln was the hardest hit so winds were probably stronger there. Around 4000 LES customers lost power from the storm.

OTOE COUNTY --- NEBRASKA CITY [40.65, -95.85]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/18/10 00:45 CST	-	0	Thunderstorm Wind (EG 50 kt)
	07/18/10 00:45 CST		0	Source: Newspaper
hunderstorm wind gusts estimated at close to 6	0 mph downed at least one to	ee along with many	y branches in the N	lebraska City area.
OTOE COUNTY 3.0 ESE PAUL [40.55, -95.83]				
	07/18/10 00:54 CST		0	Hail (1.75 in)
	07/18/10 00:54 CST		0	Source: Trained Spotter
Isolated thunderstorms developed along a slow of July 17th/18th. Ahead of the front condition the mid to upper 70s. Two small clusters of thu lowa north of Omaha. The other from Seward a reports of large hail were also received.	s were moderately unstable inderstorms crossed the are	with temperatures a, one tracked fro	in the 80s and de m the Albion and I	ew point temperatures in Norfolk area into western
DOUGLAS COUNTY 0.5 E BENNINGTON [41.	.37, -96.16]			
	07/20/10 00:16 CST		0	Hail (0.88 in)
	07/20/10 00:16 CST		0	Source: Public
DOUGLAS COUNTY 0.9 SW OMAHA [41.26, -				
	07/20/10 00:18 CST		0	Thunderstorm Wind (MG 54 kt)
	07/20/10 00:18 CST		0	Source: ASOS
The Asos at Omaha-Eppley airport measured a t		mph. The winds ca	aused scattered tre	e damage in Omaha.
LANCASTER COUNTY 2.2 ENE WAVERLY [4	0.93, -96.48] 07/20/10 01:09 CST		0	Thunderstorm Wind (MG 50 kt)
	07/20/10 01:09 CST		0	Source: Trained Spotter
A weather spotter measured a thunderstorm wind LANCASTER COUNTY 0.9 NW RAYMOND [46]		ather equipment.		
	07/20/10 01:18 CST		0	Thunderstorm Wind (EG 52 kt)
	07/20/10 01:18 CST		0	Source: Trained Spotter
A spotter estimated thunderstorm winds gusted to	o around 60 mph in the Raym	ond area.		
CASS COUNTY 0.5 W ALVO [40.87, -96.39]	07/20/10 01:30 CST		0	Thundaratorm Wind (EC 52 kt)
	07/20/10 01:30 CST		0	Thunderstorm Wind (EG 52 kt) Source: Trained Spotter
A smaller and and all them to the state of t			V	Course. Humou opolici
A spotter estimated thunderstorm wind gusts read	ched 60 mph.			
An east-west line of thunderstorms developed 20th. The storms developed north of a nearly s locally heavy rain and also isolated severe wea	stationary front that was alor	ng the Kansas and		
KNOX COUNTY 7.0 S VERDEL [42.72, -98.20] -98.12]], 10.5 WNW VERDIGRE [42.0	66, -98.22], 7.5 W \	/ERDIGRE [42.60,	-98.18], 6.5 SW NIOBRARA [42.68,
	07/22/10 01:00 CST		20K	Flash Flood (due to Heavy Rain)
	07/22/10 04:30 CST		0	Source: COOP Observer
Rainfall of 5 to 6 inches fell south of Verdel causi the flooding washed out 6 to 7 small earth dams			=	•
KNOX COUNTY 4.0 E VERDEL [42.81, -98.12]], 3.8 NW NIOBRARA [42.79,	-98.08], 1.8 SW VE	RDEL [42.80, -98.	23], 5.6 W VERDEL [42.82, -98.31], 5.0
WNW VERDEL [42.84, -98.30]	07/22/10 03:30 CST		15K	Flash Flood (due to Heavy Rain)
				• ,

Rainfall of 4 to 6 inches fell in about a 4 to 6 hour period along the Ponca Creek basin. The heavy rain caused a rapid rise of Ponca Creek which flooded areas along the creek east and west of Verdel. Some county roads and Highway 12 near the creek were flooded along with agricultural lowlands. Several washouts of county roads occurred.

07/22/10 04:30 CST

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0

Source: Official NWS Observations

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	. [42.78, -98.31], 4.1 SW NIOBRARA [42.7	'1, -98.08], 2.1 NV	V NIOBRARA [42.7	77, -98.06], 0.6 N NIOBRARA [42.76,
-98.03], 5.1 S NIOBRARA [42.68, -98.0	05], 7.3 SW NIOBRARA [42.69, -98.15] 07/22/10 04:00 CST		15K	Flood (due to Heavy Rain)
	07/23/10 05:15 CST		0	Source: Law Enforcement
caused the Niobrara River to flood acr flooded. At its peak almost 20,000 cfs	ross the lower Niobrara River basin late in oss the Jct of Highways 12 and 14 near N of water was flowing down the Niobrara, voir were opened for the first time since 1 nding agricultural land.	liobrara swampin compared to nor	g at least one vehice all flows of 1,000 c	cle. A few other roads in the area also cfs. According to NPPD records,
	RA [42.74, -98.07], 4.2 WSW VERDEL [42	2.80, -98.28], 6.1	W VERDEL [42.82,	-98.32], 5.4 WNW VERDEL [42.84,
·30.30], ∠.0 ENE VEKDEL [4∠.83, -98."	15], 3.4 NW NIOBRARA [42.78, -98.08] 07/22/10 04:30 CST		35K	Flood (due to Heavy Rain)
	07/22/10 22:00 CST		0	Source: Law Enforcement
ows into it with over 2 feet of water re	· · · · · · · · · · · · · · · · · · ·		0	Heavy Rain
KNOX COUNTY 7.0 S VERDEL [42	- ·		•	
	07/22/10 07:15 CST		0	Source: COOP Observer
period. PIERCE COUNTY 1.6 ESE OSMON	6 inches was measured by the cooperation of the coo			
-97.55]	07/22/10 09:00 CST		0	Flood (due to Heavy Rain)
	07/22/10 11:00 CST		0	Source: Emergency Manager
	north of the Osmond area during the overr nd with about 4 inches of water reported a			<u> </u>
KNOX COUNTY 4.1 E NIOBRARA .97.93]	[42.75, -97.95], 4.0 ENE NIOBRARA [42.7	6, -97.95], 4.9 E I	NIOBRARA [42.76,	-97.93], 5.3 E NIOBRARA [42.75,
•	07/22/10 10:05 CST		10K	Flood (due to Heavy Rain)
	07/22/10 14:05 CST		0	Source: Law Enforcement
	ch of this area during the night of July 21s obrara depositing some debris and causing Creek.			
	n extreme northeast Nebraska in respon rly stationary front in the region. The th d some flash flooding.		= -	

0

0

River just south of Omaha. This allowed heat index values to climb to around 105 degrees for several hours.

Afternoon temperatures reached the mid 90s and dew point values approached 80 degrees across a few counties along the Missouri

07/22/10 14:00 CST

07/22/10 18:00 CST

(NE-Z053) SARPY, (NE-Z067) CASS

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Heat